

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P835673

Luminaire Tested: **ORLG-24-2-INS-OPL-LD4-6STD-40-120-EDD**

Issue Date: 5/16/2024



Test Information

Test Method: LM-79-08
Report Number: P835673
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-OPL-LD4-6STD-40-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH opal acrylic lens
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

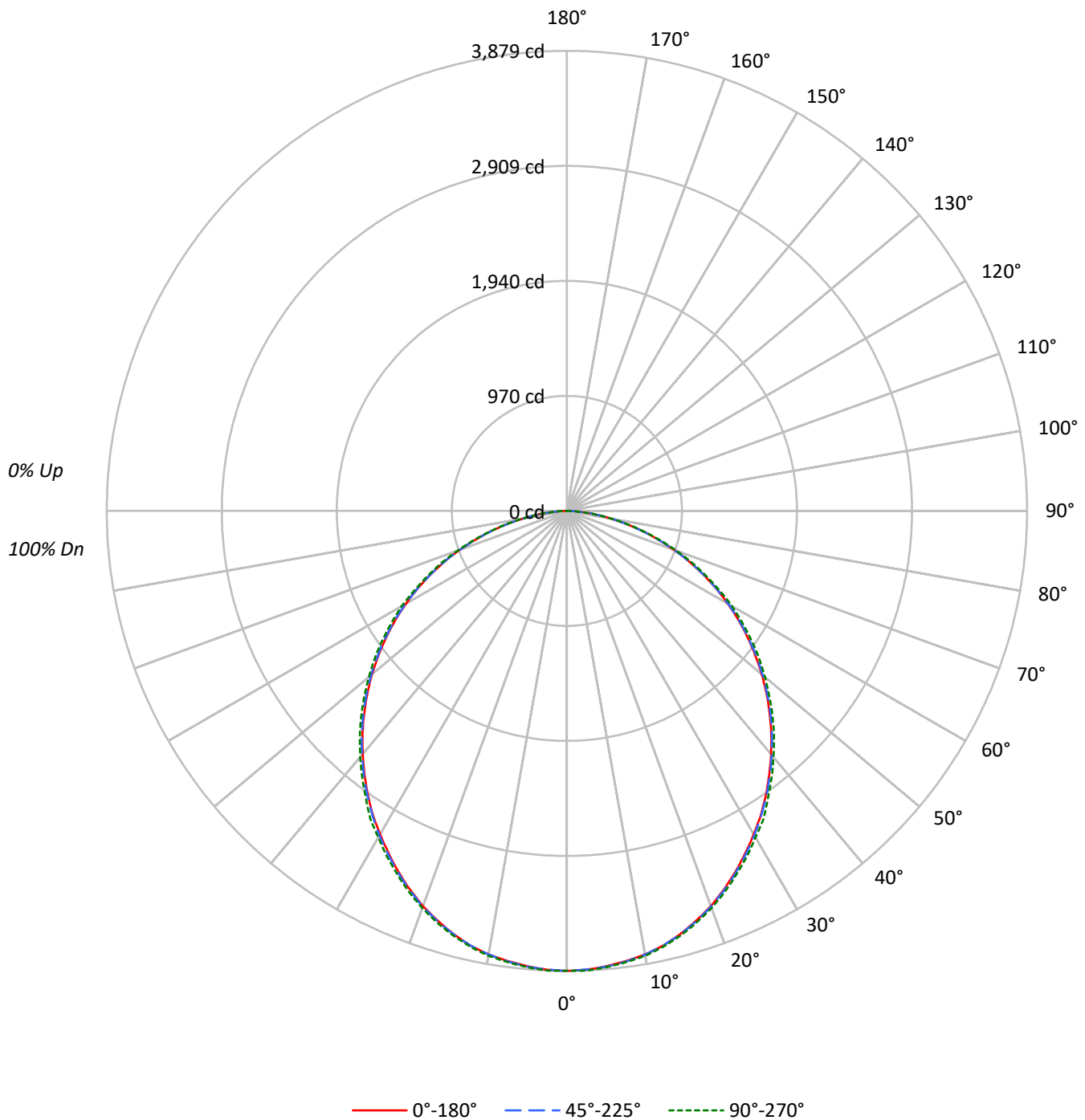
Lumens per Lamp: N/A
Luminaire Lumens: 10479.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76	72	72	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	61	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	46	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	40	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	29	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	27	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10437	10437	10437
5°	10409	10418	10431
10°	10376	10378	10409
15°	10290	10297	10326
20°	10157	10168	10205
25°	9973	9997	10042
30°	9786	9818	9878
35°	9607	9631	9707
40°	9404	9435	9520
45°	9198	9238	9333
50°	8975	9016	9120
55°	8721	8762	8906
60°	8431	8466	8656
65°	8063	8089	8242
70°	7569	7575	7739
75°	6879	6854	7013
80°	5910	5886	5985
85°	4585	4511	4536

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	3.5
10°-20°	1042.5	9.9
20°-30°	1552.0	14.8
30°-40°	1835.3	17.5
40°-50°	1873.6	17.9
50°-60°	1672.1	16.0
60°-70°	1259.4	12.0
70°-80°	702.3	6.7
80°-90°	175.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2961.0	28.3
0°-40°	4796.3	45.8
0°-60°	8342.0	79.6
0°-90°	10479.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10479.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3878	3878	3878	3878	3878	
5°	3854	3861	3857	3858	3862	366
15°	3694	3698	3696	3699	3706	1041
25°	3359	3363	3367	3376	3382	1547
35°	2924	2921	2932	2943	2955	1829
45°	2417	2416	2427	2439	2452	1864
55°	1859	1856	1868	1881	1898	1662
65°	1266	1262	1270	1282	1294	1252
75°	662	656	659	662	674	701
85°	148	144	146	144	147	178
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3878.4	3878.4	3878.4	3878.4	3878.4
2.5°	3871.9	3878.4	3870.3	3871.9	3879.2
5°	3853.5	3860.7	3856.7	3857.5	3861.5
7.5°	3827.8	3837.4	3831.8	3833.4	3837.4
10°	3797.3	3804.5	3798.1	3802.1	3809.3
12.5°	3753.9	3757.1	3753.9	3755.5	3763.5
15°	3693.7	3697.7	3696.1	3699.3	3706.5
17.5°	3623.0	3627.8	3627.0	3633.5	3639.1
20°	3546.7	3547.5	3550.7	3557.2	3563.6
22.5°	3456.8	3459.2	3462.4	3471.3	3477.7
25°	3358.8	3362.8	3366.9	3375.7	3382.1
27.5°	3255.3	3259.3	3264.9	3274.5	3285.0
30°	3149.3	3149.3	3159.7	3169.3	3179.0
32.5°	3042.5	3038.4	3048.1	3060.1	3083.4
35°	2924.4	2921.2	2931.7	2942.9	2954.9
37.5°	2801.6	2799.2	2811.2	2823.3	2834.5
40°	2677.1	2673.9	2685.9	2698.0	2710.0
42.5°	2549.4	2547.8	2559.1	2571.1	2584.0
45°	2416.9	2416.1	2427.4	2439.4	2452.3
47.5°	2282.0	2280.4	2291.7	2304.5	2315.8
50°	2143.9	2142.3	2153.6	2166.4	2178.5
52.5°	2001.8	2001.8	2012.2	2023.5	2042.0
55°	1858.9	1856.5	1867.7	1880.6	1898.2
57.5°	1714.3	1711.1	1721.6	1734.4	1750.5
60°	1566.6	1563.4	1573.0	1585.9	1608.4
62.5°	1417.2	1412.4	1422.1	1434.1	1447.8
65°	1266.3	1261.5	1270.3	1281.5	1294.4
67.5°	1114.5	1108.9	1117.7	1127.4	1139.4
70°	962.0	956.3	962.8	972.4	983.6
72.5°	810.2	804.6	810.2	814.2	827.9
75°	661.6	656.0	659.2	662.5	674.5
77.5°	517.1	511.5	517.9	519.5	526.8
80°	381.4	375.8	379.8	380.6	386.2
82.5°	257.8	252.9	258.6	254.5	259.4
85°	148.5	144.5	146.1	144.5	146.9
87.5°	58.6	55.4	56.2	53.0	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)